

OLEJNIK, O.; VASULIN, M.; BEDNAR, O.

Our experiences with the surgical treatment of total atrio-ventricular block. Rozhl. chir. 44 no.1:8-15 Ja '65

1. II. chirurgická klinika lékařské fakulty University  
J.E. Purkyne v Brně (prednosta: prof. dr. J. Navrátil, DrSc.)

NOVAK, M.; HRTICKA, A.; SERDA, I.; VASULIN, M.

An electronic device for the output of the auxiliary circulation pump. Scr. med. fac. med. Brunensis 38 no.4:169-172 '65.

1. II. chirurgická klinika lékařské fakulty University J.E. Purkyne v Brně (prednosta prof. MUDr. Jan Havrátil, DrSc., nositel Radu republiky) a Vojenskú technickú akadémiu Antonína Zapotockého v Brně, nositel Radu republiky.

Country: USSR  
 Category: CULTIVATED PLANTS. POTATOES. Vegetables. Cucurbits.  
 Abs. Jour.: IEF ENDS-BIOL.,21,1958,NO-95410  
 Author: Vasul'yeva, N.  
 Institut.: Moscow Agric. Acad. in. K.A. Timiryazev  
 Title: The Possibility of Using Multiple Strip Planting for Carrots With the Utilization of Herbicide  
 Orig. Pub.: Sb. stud. nauchno-issled. rabot. Mosk. s.-kh. akad. in. K.A. Timiryazeva, 1957 (1958), vyp.7, 267-271  
 Abstract: According to the findings of experiments at the Gor'kiy Sovkhoz during production trials, the dusting of carrot plantings with 20% isopropyl P'-phenylcarbonate (IPC) in phosphorite meal for 8-10 days after sowing the carrots produced a sharp reduction in the number of weeds when two weedings were made on the two and five strip plantings. The carrot harvest was increased in the two-strip plantings by 58.9 cwt/ha., and on the five-strip plantings by 67.6 cwt/ha.--N.N. Stonov  
 Cards: 1/1

AKSEL'ROD, L. S.; VASUNINA, G. V.

"Investigation into crystalization of moisture and carbon dioxide from a vapor-gas mixture."

report subm itted for 2nd All-Union Conf on Heat & Transfer, Minsk, 4-12 May 1964.

All-Union Sci Res Inst Oyxgen Engineering.

VASVARI, F., prof. (Budapest, V.Szerb u.23)

Initial destruction of metal surfaces by water impact. Periodica polytechnica eng 6 no.1:21-42 '62

1. Lehrstuhl für elektrotechnische Werkstofftechnologie.

VISVAF, Pers. dr., 1955-1956

International and National Association for the Advancement of Science.  
Gep. 16 no. 1-1955-1956

1. Budapest, Hungary, 1955-1956.

BALASSA, Maria, dr.; POLICZER, Miklos, dr.; FIALA, Ervin, dr.; MIKE,  
Terezia, dr.; TARI, László; VASVARI, Gabor

Radioiodine thyroid function test with the aid of the organic  
phosphorus scintillator and GM tube. Magb radiol. 12 no.4:240-  
244 N '60.

1. A Kozponti Allami Kórház és a MTA Kozp. Kémiai Kutató Intézetének  
közös közleménye.

(THYROID GLAND physiol)  
(IODINE radioactive)  
(RADIOMETRY)

VASVARI, Gabor (Budapest)

An account of my study trip in Poland. Kem tud kozl MTA 16 no.1:  
143-144 '61.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete,  
Budapest.

(Nuclear reactors) (Hungarians in Poland)

VASVARI, Gyorgy, villamos mernok

Gamma 3B2T electronic calculating machine. Meres automat 9 no.12:  
355-357 D '61.

(Electronic calculating machines)

VASVARI, Gyorgy, okl.villamosmérnök

Some problems of storing information by the digital technique. Meres  
automat 10 no.3:74-77 '62.

VASVARI, Gyorgy

Application of error-correcting codes in the pulse-code modulation system. Hir techn 14 no.3:95-97 Je '63.

SZENES, Tibor, dr., orvostudományok kandidátusa; VASVARI, Jeno, dr.

Influence of azulanol on x-ray injuries. Magy. radiol. 7 no.4;  
206-211 Oct 55.

1. A Magyar Néphadsereg Egészségügyi Szolgálat.

(ROENTGEN RAYS, effects

total body, protective eff. of azulanol by histamine  
liberation in mice.)

(CYCLOPENTANES, effects

azulanol, protective eff. against total body x-ray  
injuries by histamine liberation in mice.)

(HISTAMINE

liberation by azulanol in mice, protective eff.  
against total body x-ray injuries.)

VASVARI, Jeno, Dr.; ROZSA, Maria, Dr.

Ellipsoid gastric ulcer. Orv. hetil. 90 no.52:1840-1841 28 Dec 58.

1. A Budapesti Fovarosi IV. ker. Karolyi Sandor Koskorhas (igazgato-  
foorvos: Lazaritis Jeno dr.) Rontgenosztalyanak (foorvos: Jakob Mihaly  
dr. egyet. m. tanar) es II. sz. Belgyogyasztnak (foorvos: Ujszaszy  
Iaszlo dr.) kozlemenye.

(CONGESTIVE HEART FAILURE, compl.

peptic ulcer, ellipsoid, in prepyloric area (Hun))

(PEPTIC ULCER, case reports

ellipsoid ulcer in prepyloric area in congestive heart  
failure (Hun))

VASVARI, Jeno, dr.; HORVATH, Nandor, dr.

A new method and apparatus for phlebographic examination of the lower extremities.. Magy radiol 12 no.1:43-45 Mr '60.

1.A Fovarosí Karolyi Sándor kórház sebészeti osztályának (igazgató: Lazarits, Jeno, dr., sebész főorvos) és röntgen osztályának (főorvos: Jakob, Mihály, dr. e.m. tanár) közleménye.  
(ANGIOGRAPHY)

VASVARI, Jeno, dr.; LELKES, Gyorgy, dr.

Foreign bodies in the heart. Orv. hetil. 102 no.18:834-839 30 Ap '61.

1. Budapest Fov. IV ker. Karolyi Sandor Kozkorhaz, Rontgen Osztaly  
es a IV ker. Arpad Kozkorhaz Belgyegyaszati Osztaly.

(HEART for bodies)



Distr: 4E30/4E3d

✓ A classical interaction effect between lattice oscillation from crystals and the collective oscillation of electron gases.

B. Vasvari (Univ. Szeged, Hung.). *Acta Univ. Szegediensis*.

*Acta Phys. et Chem. (N.S.)* 3, 35-41 (1957) (in German).

Math. The collective component of the d. of the electron gas confirms the interaction between the lattice oscillation and the collective coordinate of the electron gas.

Marian C. Neumann

4  
2

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HUNGARY/Theoretical Physics - Classical Electrodynamics. Classical B-3  
Theory of Fields.

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19626

Author : Horvath J.I., Vasvari B.  
Inst : University of Szeged, Szeged, Hungary  
Title : Generalized Linear Electrodynamics.I.

Orig Pub : Acta phys. Acad. sci. hung., 1957, 7, No 3, 277-288

Abstract : It is noted that in electrodynamics with higher derivatives, in the Podolsky formulation (Podolsky B., Schwed Ph., Reviews of Modern Physics, 1948, 20, 40) a difficulty arises in quantization, owing to the vanishing of the time component of the generalized momentum of the field. The authors propose a new expression for the Lagrangian function of the free field, at which all the moments of the field are finite, and the field equations are obtained in the form of generalized wave equations without using the supplementary Lorentz condition. The canonical formalism of the theory is developed in detail, as are the derivations for the expressions for

Cerd : 1/2

2

HUNGARY/Theoretical Physics - Classical Electrodynamics, Classical  
Theory of Fields B-3

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19626

the canonical and symmetrical energy-momentum tensors of  
the field.

Card. : 2/2

HUNGARY/Electricity - Matter with Metallic Permeance

2-4

Abs Jour : Ref Zhur - Fizika, No 2, 1959, No 3679

Author : Vasvari B.

Inst : The University, Szeged, Hungary

Title : Classical Interaction Between the Vibrations of a Crystal-Lattice and the Collective Vibrations of an Electron Gas.

Orig Pub : Acta phys. et chem. Szeged, 1957, 3, No 1-4, 35-41

Abstract : In the Bohn and Pines approximation, the author considers the problem of the behavior of an electron gas in a lattice made of positive ions. The coordinates are separated into collective and individual ones. The equations of motion for the Fourier representations of the collective coordinate are the same as for an oscillator with an external force.

From the form of the solution it follows that in that case, when the plasma frequency ( $\omega_p$ ) is a multiple of the vibration frequency ( $\omega_i$ ) resonance takes place, i.e., thermal oscillations of the ions can excite oscillations

Card : 1/2

VASVARI, Bela

Collective description of electronic interactions. *Magy fiz folyoir*  
7 no.6:457-488 '59. (HAI 9:4)

1. Kossuth Lajos ~~Tudományegyetem~~, Debrecen, Elmeleti fizikai Intezet.  
(Electrons)

L 33778-66 EWP(m) WW

ACC NR: AT6025138

SOURCE CODE: HU/2502/65/051/01-/0081/0104

AUTHOR: Vasvari, F.

ORG: Technical University, Budapest

TITLE: Phenomena accompanying the cavitation process

SOURCE: Academia scientiarum hungaricae. Acta technica, v. 51, no. 1-2, 1965, 81-104

TOPIC TAGS: cavitation, electron microscopy, erosion

ABSTRACT: Twenty-seven electron micrographs taken from surfaces eroded by jet impact and magnetostriction equipment in the initial stages of destruction were presented and discussed to elucidate the phenomena occurring in connection with cavitation. The findings showed that in the initial stages of destruction electrical phenomena perform a significant function, both in terms of water impact and cavitation. Orig. art. has: 27 figures. [Orig. art. in Eng.] [JPRS: 33,544]

SUB CODE: 20/ SUBM DATE: 14Feb63/ ORIG REF: 004/ OTH REF: 026

Card 1/1

ACC NR: AF6032679

SOURCE CODE: HU/0012/65/013/012/0367/0369

AUTHOR: Payer, Karoly; Vasvari, Gabor--Vashvari, G.

ORG: Central Research Institute for Chemistry, MTA (Magyar Tudományos Akademia Kozpont)  
Kemial Kutato Intezet)

TITLE: Portable device for measuring weak beta contamination by scintillation technique

SOURCE: Meres es automatika, v. 13, no. 12, 1965, 367-369

TOPIC TAGS: photomultiplier, scintillation, radiation detector

ABSTRACT: <sup>14</sup> A portable, transistorized contamination meter for measuring weak beta- and gamma-radiation was constructed. The detector consists of a plastic scintillator in conjunction with a Zeiss M 10 FS 25 photomultiplier. The electronic portion contains a highly stabilized high-voltage power supply, a wideband amplifier, a pulse-shaping stage, and an integrating stage. The lowest detectable radioactive contamination is  $3 \times 10^{-4}$   $\mu\text{C/sq. cm.}$  for weak  $\beta$ -radiation and  $1.5 \times 10^{-3}$   $\mu\text{C/sq. cm.}$  for  $\gamma$ -radiation. The authors thank Forkai Jozsef, Electronic Engineer, for electronic preparations. Orig. art. has: 3 figures. [Based on authors' Eng. abstr.] [JPRS: 34,273]

SUB CODE: 18, 09 / SUBM DATE: 16Dec64 / OTH REF: 004

Card 1/1 blg

0919 2804

VASVARI, Miklos

Some current questions relating to the development of marine diesel engines. Jarmu mezo gep 4 no.5:203-206 N '57.

VASVARI, Miklos; VIGH, Sandor

Ships. Jarmu mezo gep 8 no.6:232 Je '61.

VASVARI, Miklos

Ships. Jarmu mezo gep 8 no.7:275 JI '61.

VASVARI, Miklos, fokonstruktor

High-power pusher ship on the Danube. Jarmu mezo gep 11  
no.10:367-371 O '64.

1. Hungarian Shipyard and Crane Factory.

LASZLO, Pota, dr.; VASVARI, Sandor, ujitasa

Automatic mobile tomograph. Magy. radiol. 7 no.1:57-59  
Jan 55.

1. A Kutvolgyi uti Allami Korhaz (igazgato: dr. Hancsok, Mariusz)  
Rontgen-intezatenek (vezeto foorvos: Hajdu, Imre dr.) kozlemenye.  
(ROENTGENOGRAPHY, apparatus and instruments,  
tomograph, automatic mobile.)

KOLIEY, Laszlo; VASVARY, Antal

Central concrete factories. Magyar ipar 11 no.11:501-508 '62.

VASVARY, Artur

Activity of the Division of Geography, Geology and Geophysics.  
Term tud kozl 4 no. 6:286-287 Je '60.

1. Secretary, National Executive Committee, Division  
of Geography, Geology and Geophysics.

VASVARY, Artur

The Circle of Friends of the Tourists of the Touring, Money Changing, Traveling, and Shipping Co., Ltd., and the Society for Propagation of Scientific Knowledge has been formed. Term tud kozl 6 no.12:575  
D '62.

VASVARY, Artur

Nesebar, the "little Venice" of the Bulgarian Sunshine Shore.  
Elet tud 17 no.32:1007-1011 12 Ag '62.

1. Tudományos Ismeretterjesztő Társulat orsz. feldrajzi  
választmány titkara.

VASVARY, Artur

"The crossing of Antarctica" by Vivian Fuchs, Edmund Hillary. Reviewed by Artur Vasvary. Term tud kozl 7 no.3:141 Mr '63.

VASVARY, Artur

Executive Committee of the Departments of Geography, Geology  
and Geophysics. Term tud kozl 7 no.6:286-287 Je '63.

1. Foldrajz- es Foldtan-geofizikai Szakosztalyok Orszagos  
Valasztmánya titkara.

VASVARY, artur, dr.

Everyday life in an Indian village on a diapositive film. Foldr  
kozl 11 no. 4:358 '63.

1. Secretary, National Executive Committee, Division of Geography,  
Geology and Geophysics, Society for Propagation of Scientific  
Knowledge; Member, Executive Committee, Hungarian Geographical  
Society.

WASY. C.

Important results of experiments in the aerodynamics of very fast airplanes.  
II.n. 91. (JARNYVSK SZ. COLET, Budapest, Hungary), Vol. 1, No. 3, Mar. 1954.

80: Monthly list of East European Accessions, (SSAI), IC, Vol. 4,  
No. 5, May 1955, Uncl.

VASY, G.

TECHNICAL DEVELOPMENT AND MODERN STREAMLING OF HIGH-SPEED VEHICLES.

p 84 (JARTUVER MEZSOCAZDASAGI GYEPER) PUDAPEST, HUNGARY VOL 4 NO 2 JUNE 1957

SO: MONTHLY INDEX OF EAST EURIPAN ACROSSINGS (AEEI) VOL 6 NO 11 NOVEMBER 1957

**"APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001859020010-5**

**APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001859020010-5"**

VASY, Geza, oklevailes gepeszmernok, aerodinamikus (Budapest)

Is there a future for airships? Term tud kozl 5 no.2:70-72 F '61.

VASY, Geza, okleveles gepeszmernok

Reducing openings suitable for measuring flow at low Reynolds numbers. Meres automat 10 no.4:114-122 '62.

1. Iranyito tervezo, GEPTERV.

VASY, Geza, okleveles gépészmérnök

Novelty, up-to-dateness, and economy. *Mérés automat 11 no.1:*  
27-28 '63.

1. Irányító tervező.

VASY, Geza

Technical development and up-to-date streamlining of  
high-speed vehicles; remark about the article by Dr.  
Ferenc Lettner. Jarmu mezo gep 4 no.2:84-86 Je '57.

VASY, Geza

Permissible tolerance of the diameter of pipelines in case  
of quantity measurement by means of the aperture. Muszaki  
köl. 33 no.1/4:131-149 '64

1. Geptervezo es Muszaki Iroda, Budapest.

VASY, G.S.

The premissible deviation of the inner diameter of a main  
upstream and downstream from a pressure difference device  
for flow measurement. Acta techn Hung 49 no.3/4:271-  
289 '64.

1. Machine Design Bureau, Budapest.

L 21994-66 EWT(1) IJP(c)

ACC NR: AP6006965 SOURCE CODE: UR/0368/66/004/002/0157/0161

AUTHOR: Khlevnyuk, A. T. ; Vasyagin, N. I.

ORG: none

TITLE: Thermoluminescence of some lamp luminophors

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 2, 1966, 157-161

TOPIC TAGS: luminophor, luminescent material, luminescence, thermoluminescence

ABSTRACT: The authors investigated the thermoluminescence of many lamp luminophors produced by the industry, with the aim of studying the depth distribution of local capture levels and the magnitude of the light sum registered by them, in order to improve the quality of the lamps. The thermoluminescence was investigated between 20 and 300-400C and -180 to 20C. It is shown that the curves of thermal de-excitation of halophosphate luminophors have many high-intensity peaks, indicating that these luminophors contain many local levels of various depth and store considerable light sums. A comparison of all the thermal de-excitation curves showed that the halophosphate luminophors have the highest local capture levels and that these luminophors also store the highest light sum. A variation in the

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UDC 535.377

L 21994-66

AP6006965

concentration of magnesium leads to a corresponding variation in the intensity of the initial phosphorescence of luminophors. It is concluded on the basis of the experiments that a single center of excitation is responsible for the luminescence of the luminophors studied. Consequently, it may be assumed that the luminescence of a luminophor originates with the recombination of electrons liberated from the local capture levels with the centers of excitation. Orig. art. has: 1 figure.

SUB CODE: 20 / SUBM DATE: 13Jul64 / ORIG REF: 007

Card 2/2

VASYAGIN, S., general-polkovnik

Leninist ideology is your weapon. Komm. Voennoye. Sil 46 no.7:  
59-66 Ap '65. (MIRA 18:5)

1. Chlen Voennoyego soveta, nachal'nik politicheskogo upravleniya  
Gruppy sovetskikh voysk v Germanii.

VASYAGINA, M. P.

VASYAGINA, M. P.: "Parasitic microflora of the 'mekosopchnik' of central Kazakhstan (in the eastern portion of Karaganda Oblast)." Acad Sci Kazakh SSR. Inst of Botany. Alma-Ata, 1956. (Dissertation for the Degree of Candidate in Biological Sciences)

So: Knizhnaya letopis' No 30, 1956 Moscow

VASYAGINA, M.P.

New species of Hyphomycetes in Kazakhstan. Izv. AN Kazakh.SSR.  
Ser.biol. no.1:100-103 '57. (MLBA 10:8)  
(KAZAKHSTAN--HYPHOMYCETES)

VASYAGINA, M.P.

New species from the mycoflora of Kazakhstan. Bot. nat. Otd.  
spor. rast. 12:159-161 Ja '59. (MIRA 12:12)  
(Kazakhstan--Mildew)

VASYAGINA, M.P.

Fauna of parasitic fungi in the hilly area of central Kazakhstan  
(eastern part of Karaganda Province). Trudy Inst.bot.AN Kazakh.  
SSR 6:161-194 '59. (MIRA 12:8)  
(Karaganda Province--Fungi, Phytopathogenic)

VASYAGINA, Mariya Pavlovna; KUZNETSOVA, Mariya Nikolayevna; PISAREVA, Nadezhda Fedorovna, SHVAITSMAN, Sof'ya Ruvinovna, kand. biolog. nauk; SUVOROVA, R.I., red.; SHEVCHUK, T.I., red.; KOROKINA, Z.P., tekhn. red.

[Flora of sporeforming plants of Kazakhstan] Flora sporovykh rastenii Kazakhstana. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR. Vol.3. [Mildew] Muchnisty-rosianye griby. 1961. 458 p.

(Kazakhstan--Mildew)

(MIRA 15:1)

VASYAGINA, M.P.

Powdery mildew fungi of the Tarbagatay Range. Trudy Inst. bot.  
AN Kazakh. SSR 9:180-196 '61. (MIRA 14:3)  
(Tarbagatay Range—Mildew)

KONAREVSKIY, A.A., starshiy nauchnyy sotrudnik; DERGUNOVA, A.A., starshiy  
nauchnyy sotrudnik; VASYAGINA, O.A., teknik

Development of modern standards of electric power consumption  
for the production of sausages. Trudy VNIIMP no.9:152-157 '59.  
(Sausages) (MIRA 13:8)

A. MANDELSTAM, A.M. (Eng.) VASYAKIN, I.S. (Mining Eng.): KISLYAK, YE. G. (Mining El. Eng.)

Potash Industry and Trade - Solikamsk

Mechanized mining work at the Solikamsk potash mine. Mekh. trud. rab. 6 no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952, UNCLASSIFIED

USSR, Chemistry - Raw materials, Mining of potassium salts;-----

FD-273

Card 1/1

Pub. 50 - 11/20

Authors : Vasyakin, A. S., Komshilov, I. I., Dibrov, R. P.

Title : Application of the method of drill-holes arranged in the shape of a fan in the exploitation of the "Krasnyy P" layer at the Solikamsk potassium mine

Periodical : Khim. prom. No 5, 294-296, Jul-Aug 1955

Abstract : The details of a new method of mining and its advantages are described.

VASYANIN, Aleksandr Ivanovich, zhurnalist-mezhdunarodnik;  
ROZHDESTVENSKIY, P., red.; KONOVALOVA, L., tekhn. red.

[The Republic of Mali] Respublika Mali. Moskva, Gospolitizdat,  
1963. 70 p. (MIRA 16:1)  
(Mali)

VASYANIN, K.I.

Effect of death from lack of oxygen and breaks in fishing on the  
reproduction of sterlet stocks. Izv. Kazan. fil. AN SSSR. Ser. biol. i  
sel'khoz. nauk no. 1:159-165 '49. (MLBA 10:2)  
(Volga River--Sturgeons)

LUKIN, A.V.; VASYANIN, K.I.; POPOV, Yu.K.

Inferior and undesirable fishes of the Tatar Republic, their significance in fishery and means for their economic utilization. Izv. Kazan. fil. AN SSSR. Ser. biol. i sel'khoz. nauk no. 2: 259-292 '50. (MLRA 10:2)  
(Tatar A.S.S.R.--Fishes)

VASYANIN, K.I.

Introduction on collective farms of methods for intensified  
cultivation of young mirror carp. Uch.zap.Ka.un. 115 no.8:205-  
215 '55. (MIRA 10:3)

1. Daystvitel'nyy chlen Obshchestva yestestvoispytateley.  
(Carp)

VASYANIN, S.I.

Heat resistance of the muscular tissue of some species of birds  
of the finch family. TSitologiya 2 no.4:483-485 J1-Ag '60.

(MIRA 13:9)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN  
SSSR, Leningrad.

(TEMPERATURE—PHYSIOLOGICAL EFFECT)  
(MUSCLE) (FINCHES)

VASYANIN, S.I.

Optimum force of a local contractile reaction (contracture) of the  
somatic muscles. TSitologiya 3 no. 2:146-153 Mr-Apr '61.

(MIRA 14:4)

1. Laboratoriya fiziologii kletki Fiziologicheskogo instituta pri  
Leningradskom universitete.

(MUSCLES)

NIKOL'SKIY, N.N.; VASYANIN, S.I.

Nature of resting potential in phytophagous insects. TSitologiya  
4 no.4:451-453 J1-Apr '62. (MIRA 15:9)

1. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR,  
Leningrad.

(INSECTS--PHYSIOLOGY) (ELECTROPHYSIOLOGY)

VASYANIN, S.I.

Thermostability of muscle Tissue in 3 species of herons.  
Tsitologiia 4 no.6:673-675 N-D'62 (MIRA 17:3)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii  
AN SSSR, Leningrad.

NIKOL'SKIY, N.N.; VASYANIN, S.I.; VERENINOVA, S.A.

Adjustment of solitary nerve and muscle fibers to a linearly rising current. Fiziol.zhur. 48 no.12:1507-1510 D '62.

(MIRA 16:2)

1. Institut tsitologii AN SSSR, Leningrad.  
(ELECTROPHYSIOLOGY)

NIKOL'SKIY, N. N., VAKMANIN, S. I.

Relation between the resting potential value and the coating  
of microelectrodes. *Biophysika* 9 no. 1:71-77 '64.  
(MIR' 17:2)

L. Institut tsitologii AN SSSR, original.

L 41310-65

ACCESSION NR: AR5003960

S/0299/64/000/023/R035/R036

SOURCE: Ref. zh. Biologiya. Sv. t., Abs. 23R269

AUTHOR: Vinogradova, N. A.; Vasyanin, S. I.

TITLE: Change in intracellular concentration of cations during incubation of muscles at low temperature

CITED SOURCE: Tsitologiya, v. 6, no. 4, 1964, 486-493

TOPIC TAGS: frog, muscle, tissue culture, ion concentration, potassium, sodium, lithium, substitution reaction

TRANSLATION: Phase changes of the intracellular concentration of  $K^+$  were observed during prolonged incubation of sartorius muscles of common frogs at 22° in an ordinary Ringer solution and in a Ringer solution in which sodium chloride was replaced by lithium chloride. During the first two days the intracellular concentration of  $K^+$  dropped from 127.3 to 107.0 mmols, and returned to its initial level on the 3d and 4th days. During the next 5-6 days the  $K^+$  level of the muscles was reduced to 109.3 mmols in the ordinary Ringer

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ACCESSION NR: AR5003960

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solution and to 54.5 mmols in the solution with lithium chloride. The observed increase in intracellular concentration of  $K^+$  was not accompanied by an increase in rest potential. In 6 days its value dropped from 82 to 70 mv in the Ringer solution with sodium chloride and to 65 mv in the solution with lithium chloride. It is assumed that the phase changes of intracellular concentrations of  $K^+$  are related to fluctuations in the sorption properties of muscular tissue. During the incubation period (9 days), the intracellular concentration of  $Na^+$  increased from 26.4 to 42.5 mmols in the Ringer solution with sodium chloride. Muscles lost 20.0 mmols of  $Na^+$  during incubation in a solution with lithium chloride, and the intracellular concentration of  $Li^+$  after 10 days was equal to 15 mmols. Author's abstract.

SUB CODE: LS

ENCL: 00

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Card 2/2

VASYANIN, Yu.

Fifteenth anniversary of the Soviet-Polish treaty. Vresh.  
torg 30 no.5:35-36 '60. (MIRA 13:5)

(Russia--Foreign economic relations--Poland)

(Poland--Foreign economic relations--Russia)

(Poland--Economic conditions)

VASYANIN, Yu.; SHALASHOV, V.

Prospects for Poland's foreign trade development. Vnesh. torg.  
41 no.6:20-25 '61. (MIRA 14:7)  
(Poland—Economic conditions)  
(Poland—Commerce)

VASYANIN, Yu, L.

Coal-mining industry in Poland in 1958. Biul. tekhn.--ekon. inform.  
no. 12:67-69 '59. (MIRA 13:4)  
(Poland--Coal mines and mining)

VASYANIN, Yu.L.

Power machinery construction in Poland. Biul.tekhn.-ekon.inform.  
no.12:71-74 '60. (MIRA 13:12)  
(Poland—Machinery industry)

VASYANIN, Yu.L.

Zinc industry in Poland. Biul.tekh.-ekon.inform. no.7:  
75-77 '60. (MIRA 13:7)

(Poland—Zinc industry)

VASYANIN, Yu.L.

Tractors of the Polish People's Republic. Trakt. i sel'khoz mash.  
30 no.9:46 S '60. (MIRA 13:9)

(Poland-- Tractors)

S/193/60/000/005/012/012  
AC04/AC01

AUTHOR: Vasyanin, Yu.L.

TITLE: The Polish Ferrous Metallurgy

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 5, pp. 80 - 83

TEXT: The author presents a detailed survey on the development of the Polish ferrous metallurgy and states that from 1945 to 1959 44 million tons steel were produced in Poland, i.e. 2.3 times more than from 1920 to 1939. Including the iron ore mining industry, 52 enterprises with 132,700 employees produced ferrous metals in 1958. Table 1 shows the increase in production of the various items. ✓

A) В тыс. т			
	1957 г.	1958 г.	1959 г.
1) Чугун (в пересчете на переделанный) . . . . .	3632	3864	4374
2) Сталь . . . . .	5304	5642	6159
3) Прокат . . . . .	3580	3700	4060
4) Трубы . . . . .	299	311	333

Table 1: A) in 1,000 tons; 1) pig iron (on conversion to cast iron for steel manufacture; 2) steel; 3) rolled steel; 4) pipes.

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The Polish Ferrous Metallurgy

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A004/A001

Table 2 shows the increase in production capacity of the ferrous metallurgy on account of new capital investments from 1950 to 1958.

	1) Единица измерения	2) Прирост	Table 2: 1) Unit of measure; 2) increase; 3) blast furnace; 4) steel melting furnace; 5) coking plants; 6) sintering installations; 7) rolled material; 8) iron castings; 9) steel castings.
3) Доменные печи . . .	шт.	7	
4) Сталеплавильные печи . . . . .	тыс. т	3151	
	шт.	26	
5) Коксохимические батареи . . . .	тыс. т	3139	
	шт.	21	
6) Агломерационные установки . . . .	тыс. т	4055	
7) Прокат . . . . .	тыс. т	4115	
8) Литье чугуное . . .	тыс. т	4159	
9) Литье стальное . . .	тыс. т	231,1	
		60,8	

During this period the total useful volume of blast furnaces increased from about 7,150 cu.m (19 furnaces) to 15,860 cu.m (26 furnaces). With three more blast furnaces of 1,700 cu.m each erected up to 1965, the average useful volume of one blast furnace is to be brought to 690 cu.m. The increase in productivity per worker is expressed by the following figures (in tons); 1937 - 328; 1950 - 386; 1955 - 698; 1958 - 956;

1959 - 1,147. Many metallurgical plants introduced moistened blowing which made it possible to increase the blowing temperature from 500 to 750°, in some cases to 950°C, which resulted in an increase of the utilization factor of blast furnaces.

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A004/A001

# The Polish Ferrous Metallurgy

From 1961 to 1965 eight new blast furnaces will be erected, while six obsolete ones will be torn down. Compared to 1,039 kg coke in 1957 per ton of pig iron, in 1959 the coke consumption was cut down to 989 kg per ton of pig iron. The corresponding figure projected for 1965 is 900 kg coke. In 1958 the Polish ferrous metallurgical industry had 94 open-hearth furnaces. Table 3 presents data on the open-hearth furnaces, comparing the 1950 figures with those for 1957 and 1958.

	1950 г.	1957 г.	1958 г.
1) Печи емкостью до 30 т . . . . .	18	17	16
2) Печи емкостью 31-60 т . . . . .	38	42	42
3) Печи емкостью 61-100 т . . . . .	19	29	29
4) Печи емкостью 101-200 т . . . . .	—	3	3
5) Печи емкостью свыше 200 т . . . . .	—	3	4
6) Всего . . . . .	75	91	94

Table 3:

1) furnaces with a capacity of up to 30 tons; 2) idem of 31-60 tons; 3) 30 idem of 61-100 tons; 4) idem of 101-200 tons; 5) idem of more than 200 tons; 6) total.

In February 1959 the 360-ton capacity open-hearth furnace No. 8 was put in operation at the Combine im. Lenin, which made the number of open-hearth furnaces in Poland increase to 95. Table 4 presents comparative data on the capacity and hearth area of open-hearth furnaces in 1950 and 1959 (up to February).

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The Polish Ferrous Metallurgy

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A004/A001

1/	Показатели	1950 г.	1959 г.	2/
				% прироста в 1959 г. к 1950 г.
3/	Суммарная емкость печей, т	3314	6675	около 100
4/	Суммарная площадь пола печей, м <sup>2</sup>	1820	2876	58
5/	Средняя емкость 1 печи, т	45	70	56
6/	Средняя поверхность пола 1 печи, м <sup>2</sup>	24	30	25

Table 4:

1) index; 2) increase in %; 3) total furnace capacity, tons; 4) total hearth area of furnaces, sq. m; 5) average capacity of 1 furnace, tons; 6) average hearth area of 1 furnace, sq.m.

In 1959 the steel output per worker increased to 609 tons, at the Combine im. Lenin to 1,503 tons. The increase in productivity of open-hearth furnaces was attained owing to the use of "zebra" type crowns, a combination of an acid and a basic crown, and also of chrome-magnesite firebricks and by using oxygen for the melting of steel. During 1961 - 1965 seven new open-hearth and one electric furnace will be built in Poland. These new furnaces will increase the steel production by 63%, another 37% increase will be achieved by modernizing old plants. During 1963 - 1964 three 90-ton converters with an annual capacity of 800 - 1,000 thousand tons will be built at the Combine im. Lenin with

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The Polish Ferrous Metallurgy

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the aid of the Soviet Union. A special plant at Kattovitse carries out repairs of metallurgical plant equipment. New rapid repair methods are being employed which enabled the ferrous metallurgy plants to produce additional 20,000 tons pig iron and the same quantity of steel. Great attention is paid to the introduction of new technological processes, developed mainly by the Institute of Ferrous Metallurgy at Glivitse and the Biprokhut Design and Planning Office. Special emphasis is laid on the development of converters with oxygen blowing and steel teeming under vacuum. In 1960 the "Yednosh" Metallurgical Plant is going to receive the equipment for continuous steel teeming, while the metallurgical plants "Bail'don", "Batori" and "Varshava" are going to be equipped with such installations during the next years. By 1965 the "Varshava" Plant is going to produce 350,000 tons of quality steel per year; later, this plant is to increase its capacity to 600,000 tons annually. The production of rolled material was considerably extended and includes now 2,000 different items. Under the next Five-Year Plan the greatest attention is paid to the development of steel sheet production, and particularly transformer steel, sections, tubes and wire. Equipment for a galvanizing plant was bought in the USA and England, while the equipment for the production of seamless tubes was bought in West Germany. Up to 1965 a total of eight new rolling mills will be built, which will result in a 40% increase

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The Polish Ferrous Metallurgy

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A004/A001

✓

of rolled material, while another 60% raise will be achieved on account of an extensive modernization of old rolling mills. A 6,000-ton press with a production capacity of 20,000 tons of forge work will be installed at the Metallurgical Plant im. Novotki at Ostrovtse. According to the 1960 plan the ferrous metallurgy plants in Poland are to produce 4.6 million tons pig iron, 6.4 million tons steel, 4.3 million tons rolled material and 11.5 million tons coke. There are 4 tables and 8 non-Soviet references.

Card 6/6

S/193/60/000/009/013/013  
A004/A001

AUTHOR:

Vasyanin, Yu.L.

TITLE:

The Radio Engineering Industry in Poland

PERIODICAL:

Byulleten' tekhniko-ekonomicheskoi informatsii, 1960, No. 9, pp. 82-84

TEXT:

The author presents a survey on the development of Poland's radio engineering industry, which, at present, incorporates 30 industrial enterprises with a total of 40,000 people employed. The following articles are manufactured: radio equipment, television and radar equipment, electroacoustic devices, various electron tubes, cinescopes, crystal diodes, transistors, etc. The author presents a comparative table showing the outputs of the most important articles in 1949, 1955, 1958, and 1959. The gross production volume of the radio engineering industry in 1960 is to exceed that of 1955 by 4.5 times. Poland is the biggest producer of radio-sets among the Socialist countries, with the exception of the USSR; the most important factories for the production of radio-sets are: "Diora" at Dzerzhonyuva (Pustlavskoye voyevodstvo), the Warsaw Plant im. Kaspshak and the "El tra" Radio Works at Bydgoszcz. The various types of radio-sets produced

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Card 1/3

VASYANIN, Yu.L.

Nonferrous metallurgy of Poland. Biul. nauch.-tekhn. inform.  
VIMS no.2:84-88 '63. (MIRA 18:2)

KUDRYASHEV, I.I.; BARANOV, A.T.; ROZENFEL'D, L.M.; BORDYUG, D.Ya.;  
LEVIN, M.V.; KALNINA, N.A.; KAN, F.A.; VAS'YANOV, D.P.,  
red.; KUZNETSOV, A.I., tekhn. red.

[Technical specifications for manufacturing articles from cellular concrete, foamed fly ash concrete, breeze foamed fly ash silicate, and foamed clinker concrete] Tekhnicheskie usloviia na izgotovlenie izdelii iz avtoklavnykh iacheistykh betonov - penozolobetona, penozolosilikata i penoshlakobetona; proekt. Moskva, TSentr. biuro tekhn. informatsii, 1959. 62 p. (MIRA 15:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut novykh stroitel'nykh materialov, otdelki i oborudovaniya zdaniy.
2. Nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Kudryashev).
3. Nauchno-issledovatel'skiy institut betona i zhelezobetona (for Baranov, Rozenfel'd).
4. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Bordyug, D.Ya.).
5. Nauchno-issledovatel'skiy institut promyshlennykh zdaniy i sooruzheniy (for Levin).
6. Zapadno-Sibirskiy filial Akademii stroitel'stva i arkhitektury SSSR (for Kalnina).
7. Ural'skiy filial Akademii stroitel'stva i arkhitektury SSSR (for Kan).

(Lightweight concrete)

VAS'YANOV, F.P., Cand Tech Sci -- (disc) "Red rye malt (baking)."  
Mos, 1958, 18 pp (Min of Higher Education USSR. Mos Tech Inst of  
Food Industry) 100 copies (PL, 27-58, 108)

- 89 -

МАХАН, И.Н.; ВАСЯНОВ, Г.П.

Native silver from the Gumeshevsk mine in the Urals. Trudy  
Inst. geol. USSR no. 70:321-322 '65. (MIRA 18:12)

SIMANOVSKAYA, R.E.; rukovoditel' raboty; SHPUNT, S.Ya.; VODZINSKAYA, Z.V.;  
KOKINA, Z.I.; PSTUKHOVA, M.G.; NAYDENOVA, V.A.; VAS'YANOV, V.P.;  
VASIL'YEV, N.F., master; ORLOV, N.N., starshiy apparatchik;  
NAUMOV, P.M., starshiy apparatchik; TRUPIN, M.P., starshiy apparatchik;  
VOLKOVA, V.M., starshiy apparatchik; ZORINA, Ye.A.; KIROVA, V.A.;  
LUTOVA, Z.I., ZENKINA, Z.P., laborant; SEMOKHINA, L.A., laborant;  
NIKITINA, N.A.

Phosphogypsum and its use in the manufacture of sulfuric acid and  
portland cement; small-scale operation at the pilot plant of the  
Scientific Research Institute of Fertilizers and Insectifuges.  
[Trudy] NIUIF no.160:59-76 '58. (MIRA 12:8)

1. Sotrudniki Nauchnogo instituta po udobreniyam i insektofungisidam  
(for Simanovskaya, Shpunt, Vodzinskaya, Kokina, Istukhova,  
Naydenova). 2. Zamestitel' nachal'nika 3-go tsekha Opytnogo zavoda  
Nauchnogo instituta po udobreniyam i insektofungisidam (for Vas'yanov).  
3. 3-y tsekh Opytnogo zavoda Nauchnogo instituta po udobreniyam i  
insektofungisidam (for Vasil'yev, Orlov, Naumov, Trupin, Volkova,  
Zorina, Kirova, Lutova, Zenkina, Samokhina). 4. Tsentral'naya  
analiticheskaya laboratoriya Opytnogo zavoda Nauchnogo instituta po  
udobreniyam i insektofungisidam (for Nikitina).  
(Gypsum) (Portland cement) (Sulfuric acid)

VASYANOVA, A.S.

Second conference of stomatologists of Amur Province. Stomatologiya  
40 no.2:107 Mr-Apr '61. (MIRA 14:5)  
(AMUR PROVINCE—STOMATOLOGY)

TRUB, I.A., kand.tekhn.nauk; VASYANOVICH, I.F., inzh.; DANILETSKIY, A.P.,  
inzh.

Technological indices of the operation of tunnel furnaces  
and dryers fueled by mazut. Stroi. mat. 8 no.2:25-27 F  
'62.

(MIRA 15:3)

(Petroleum as fuel)

KURILLOV, G.V., inzh.; VASYANOVICH, I.F., inzh.; YARKHO, V.I., inzh.;  
MORGUNOV, V.N., inzh.; BALITSKIY, S.A., kand. tekhn. nauk

Drying rigid mineral wool plates with bitumen-kaolin binder.  
Stroi. mat. 11 no. 12:12-14 D '65. (MIRA 18:12)

DVORKIND, M.M., inzh. V rabote prinimali uchastiye: VAS'YAS, I.P.;  
KOKSHAROV, V.D.; DRESVIYANKIN, V.I.; PARAMONOVA, A.P.;  
GOLOKHMATOV, S.N.; SHISHARIN, B.N.; GOLIKOVA, T.A.; KLISHA, Ya.A.;  
KOZHEVNIKOVA, Ye.L.; VYDRINA, Zh.A.; BUSHUYEVA, T.N.;  
NAZARENKO, G.A.

Behavior of open-hearth furnace crowns under the effect of  
feeding oxygen into the burner flame and into the bath. Stal'  
20 no.2:117-121 F '60. (MIRA 13:5)

1. Vostochnyy nauchno-issledovatel'skiy institut ogneuporov.  
(Open-hearth furnaces)  
(Firebrick)

AUTHOR:

Vasyayev, G.M.

SOV/19-58-6-11/685

TITLE:

A High-Altitude Suit of Several Layers of Fabric  
(Vysotnyy kostyum iz neskol'kikh sloyev materi)

PERIODICAL:

Byulleten' izobreteniy, 1958, Nr 6, p 7 (USSR)

ABSTRACT:

Class 3b, 22. Nr 113974 (134415/163471 of 20 February 1935). Submitted to the Committee for Inventions  
1) A high-altitude suit made of several fabric layers and springs placed between the fabric layer to form air layers in the material. 2) A high-altitude suit as described above with pads interconnected with circulation pipes. The chest pad is provided with an electric coil for heating oxygen, and with small bags for storing food.

Card 1/1

ROD'KINA, Z.I.; VASIL'CHENKO, L.F. [Vasyl'chenko, L.F.]

Using the condenser spinning method for the manufacture of No.20  
yarn made from nitron. Izh.prom, no.2:12-14 Ap-Je '65.

(MIRA 18:10)

VASIL'CHENKO, O.G. [Vasyl'chenko, O.H.]

Ways to improve the work of galenic pharmaceutical enterprises in the Ukraine, Farmatsev.zhur. 20 no.1:85-88 '65.

(MIRA 18:10)

1. Tsentral'naya nauchno-issledovatel'skaya aptechnaya laboratoriya  
Glavnogo aptechnogo upravleniya Ministerstva zdavookhraneniya  
UkrSSR.

VASYLENKO, A.O.

Russia - Politics and government

More help of scientists on great new construction projects. Visnyk AN URSR 22 no. 10, 1950.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

VASYLENKO, A.O.

Scientific-technical conference on problems of capacity under conditions  
of discontinuous loads. Visnyk AN URSR 24 no.5:57-60 My '53. (MLRA 6:6)  
(Machinery)

VASYLENKO, A.O.

Scientific and technical conference on theoretical and industrial problems  
in high-strength cast iron production. Visnyk AN URSR 24 no.9:66-71 S '53.  
(MLRA 6:10)  
(Cast iron)

16(1)

SOV/21-59-9-3/25

AUTHOR: Vasylenko, O.Yu.

TITLE: On a Certain Integral Equation

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi RSR, Nr 9, 1959, pp 941-944 (USSR)

ABSTRACT: In this paper, the author proves the existence and uniqueness of a positive solution of a non-linear integral equation met with in the theory of the non-steady flow of ground water:

$$\varphi^2(\xi) = \int_{\xi}^1 K(\xi, \xi_1) \varphi(\xi_1) d\xi_1, \quad 0 < \xi \leq \xi_1 \leq 1,$$

whereby  $K(\xi, \xi_1)$  stands for core, and  $0 < \xi \leq \xi_1 \leq 1$  for region. Using a number of formulae, he arrives at this conclusion by making the following statement: assuming that  $\varphi(\xi) = 1$  at  $\xi_1 \leq \xi \leq 1$  and close to  $\xi = \xi_1$ ,  $\varphi(\xi) > 1$  at  $\xi < \xi_1$ , we shall obtain analogical inequalities contradicting the assumption, by which the existence of the unique positive solution of the integral equation

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On a Certain Integral Equation

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(1) is proved. There is 1 Soviet reference.

ASSOCIATION: Kyivskyy inzhenerno-budivelnyy instytut (Kiyev  
Engineering and Construction Institute)

PRESENTED: By Y.Z. Shtokalo, Member AS of UkrSSR

SUBMITTED: March 7, 1959

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66647

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SOV/21-59-11-3/27

AUTHOR: Vasylenko, O.Yu.

TITLE: On the Solution of One Integral Equation

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi RSR, 1959,  
Nr 11, pp 1184 - 1188 (USSR)

ABSTRACT: Examining the unique, positive solution of a non-linear integral equation

$$f^2(\xi) = \int_0^1 K(\xi; \xi_1) f(\xi_1) d\xi_1, \quad 0 < \xi \leq \xi_1 \leq 1 \quad (1)$$

encountered in the theory of the non-steady flow of ground waters, the existence of which has been proved [Ref 1], the author offers two iteration methods for its solution. For this, in his first method, he employs the iteration formula

Card 1/3

$$f_{n+1}^2(\xi) = \int_0^1 K(\xi; \xi_1) f_n(\xi_1) d\xi_1 \quad (14)$$

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# On the Solution of One Integral Equation

and in his second method he employs the iteration formula

$$f_{n+1}(\xi) = \frac{1}{2} \left[ f_n(\xi) + \frac{\int_0^1 K(\xi; \xi_1) f_n(\xi_1) d\xi_1}{f_n(\xi)} \right] \quad (19)$$

and also proves the convergence of successive approximations obtained by the iteration methods, towards the solution. Designations employed are standard mathematical, Assumptions made are as follows:

- a) nucleus  $K(\xi; \xi_1) < 1$  is a positive continuous function in both arguments in the area  $0 < \xi \leq \xi_1 \leq 1$ ,

Card 2/3